

# POWER QUERY IN POWER BI

Data Cleaning & Transformation

**Monti Kumar Raj**

# WHAT IS POWER QUERY?

- A data connection and transformation tool in Power BI & Excel
- Used to import, clean, reshape, and transform data
- Makes raw, messy data ready for analysis
- Based on 'M' language for transformations

# WHERE CAN YOU USE POWER QUERY?

- Power BI Desktop – for dashboards & reports
- Excel – as 'Get & Transform' feature
- Databases – SQL Server, MySQL, Oracle
- Cloud – Azure, SharePoint, Web APIs, JSON, etc.

# DATA CLEANING OPTIONS

- Remove duplicates
- Replace values
- Remove empty rows/columns
- Filter & sort rows
- Fix data types (text, number, date, currency)

# COLUMN & ROW OPERATIONS

- Split column (Full Name → First, Last)
- Merge columns
- Add conditional columns (if/else rules)
- Group By (aggregations like total sales by region)
- Pivot / Unpivot data for reporting

# MERGE & APPEND QUERIES

- Merge Queries – works like SQL JOIN
- Append Queries – works like SQL UNION
- Helps combine multiple data sources
- Create a single clean dataset for analysis

# ADVANCED EDITOR

- Power Query uses 'M Language'
- Each step of transformation is recorded
- Advanced Editor allows manual editing
- Useful for writing custom transformations

# WHY IS POWER QUERY IMPORTANT?

- Automates repetitive data cleaning tasks
- Ensures clean & reliable data for dashboards
- Saves time in reporting & analysis
- Essential for Data Analysts & BI Developers



# THANK YOU

**Monti Kumar Raj**